

SEVERE STORMS FOR AUGUST 1949

[The table hereunder contains such data as has been received concerning severe local storms that occurred during the month.]

Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks
Beulah, Colo.	1	2-3 p. m.	13		\$1,000	Hail.	Hailstones $\frac{1}{4}$ to $\frac{1}{2}$ inch in diameter damaged hay.
Shippensburg, Pa.	1	Afternoon				Electrical.	Large barn struck by lightning. The resulting fire destroyed hay, straw, 550 bushels of barley, 500 bushels of wheat, farm machinery including a corn binder, and also a milk shed.
Crab Orchard, Lincoln County, Ky.	2	2-2:30 p. m.				Hail and rain.	Some fields of tobacco a total loss.
Science Hill, Ky.	2	2:15-3:15 p. m.				Wind and hail.	Hail damaged tobacco; some fields a total loss. Corn blown down by wind.
District of Columbia.	2	4-6 p. m.				Rain.	More than 3 inches of rain fell over a small area in about 2 hours. 2 automobiles collided due to mud which had washed onto paved street. Newspapers reported automobiles floating down streets. Streets and basements flooded. Most severe in Brightwood and Takoma Park areas.
Buffalo (near Kershaw), S. C.	2	Afternoon		1		Electrical.	1 person killed by lightning.
Belt (west of), Mont.	2	8:45 p. m.	11			Hail.	Moderate hail caused up to 50 percent damage in some spots over path 5 miles long.
Davless County, Ind.	3	3 p. m.	11		21,000	Wind and hail.	Hailstones up to 1 inch in diameter occurred south of Washington. \$20,000 crop damage included in total.
Monte Vista, Colo.	3	4:30-7:30 p. m.	14		5,000	do.	Storm most severe in small area northwest of Monte Vista. Hailstones $\frac{1}{2}$ inch in diameter and wind velocities 30 m. p. h. Damage limited to crops and trees.
Idaho, (south-central portion).	3	8:30-11 p. m.				Wind and electrical.	Strong winds and severe lightning accompanied numerous thunderstorms at Twin Falls, Jerome, Lincoln. Wind damage apparently light, despite gusts to 60 m. p. h. at Twin Falls. Considerable interruption of power, and damage to power lines. 9 head of cattle killed by lightning.
Carbondale and vicinity, Colo.	4	3:30-4:30 p. m.	12		8,000	Wind, rain, and hail.	Some damage to crops by wind-driven rain and hail, but greatest losses to power and telephone lines. Storm swept 13-mile stretch between Carbondale and Basalt.
Quarryville and Christiansa, Pa.	5	Morning				Electrical and flash flood.	Man knocked down by bolt of lightning while entering store; another flattened against kitchen wall of his home by lightning bolt. A \$15,000 barn destroyed by lightning fire. Tobacco and corn fields damaged by washing. Water covered highways in New Providence area, impeding traffic for several hours.
Buckeye-Gila Bend area, Ariz.	5-6	Morning 5th to evening 6th	120		10,000	Thunderstorms, with rain and wind.	Flash floods from Maricopa Mountains caused extensive damage to Highways 84 and 80 east of Gila Bend. Flood waters broke into full canal, crossed canal, and caused 3 breaks in highway. Centennial Wash ran $4\frac{1}{2}$ feet deep across highway. High winds ripped down 40 telephone poles between Maricopa and Gila Bend.
Connecticut, (northeastern portion).	6	3:30-5 p. m.			3,000	Electrical, wind, and rain.	Lightning, squalls, and heavy rains damaged crops, signs, and trees, and killed livestock. Most damage in Windham County.
Lake City, S. C.	6	7:30 p. m.			3,000	Electrical.	Lightning fires burned 2 barns, killing 2 mules.
Timmonsville, S. C.	6	8 p. m.		1		do.	1 person killed by lightning.
Truchas, N. Mex.	6	11 p. m.				Hail.	Extensive crop damage and many windows broken.
Mesa-Phoenix area, Ariz.	6	Evening	130	3	100,000	Thunderstorms, with rain and winds.	Highest winds in Tempe-Mesa sector, but strong as far west as Phoenix. Power lines flattened and more than 5,000 telephones out of order for nearly 24 hours. Woman killed in Mesa, when house collapsed. Pilot killed by lightning near Queen Creek, while staking down plane. A third person perished when his house burned, due to short circuit from wire blown on building. Extensive damage to homes and business buildings in Tempe-Mesa area. Warehouse moved from foundation by strong wind. Hangar at Tempe demolished by wind. Wind blew off roofs and caved in walls of several buildings over entire width of path. 10,000-gallon gasoline tank toppled by wind in Mesa. Fire from lightning destroyed dwelling.
Liberty County, Mont.	7	Afternoon	880			Hail.	Moderate hail caused 33 percent loss to wheat.
Cayce, S. C.	7	do.			5,000	Electrical.	Series of heavy thundershowers in Showlow-Holbrook area and in McNary-Springerville sector caused many flash floods in canyons and draws. A 75-foot fill on State Highway 77, near Shumway washed out. The Little Colorado River near Holbrook ran nearly bankfull. Considerable washing on county roads over entire sector. A portion of Apache Railroad between McNary and Snowflake washed out by flash flood.
Arizona (northeastern portion).	7-8	Evening and next day.			10,000	Thunderstorms and rains.	In area 3 to 5 miles northeast of Howell, 3 farms struck by lightning. Resulting fires destroyed 3 barns and contents, also 2 smaller buildings.
Howell (near), Mich.	8	3-5 a. m.			40,000	Electrical.	3 inches of rain in about 1 hour flooded streets to depths of 2 to 4 feet or more; 1 residential area flooded to extent that 33 residents had to be evacuated. Railroad tracks underwashed near Terminal Station, and in 1 place a hole 20 feet in depth was left. Portion of roof of business house caved in, injuring 1 person and severely damaging an automobile and other property. More than 1,000 telephones out of order. Lightning struck at several points, causing minor damages. Trees blown down in 1 section. Amount of losses not known, but probably at least \$10,000.
Macon, Ga.	9	7 p. m.				Electrical, rain, and wind.	Barn struck by lightning and entirely destroyed by fire. An adjoining silo also burned. 4 calves perished.
Long Prairie and vicinity, Minn.	9	p. m.			5,000	Electrical.	From 20 to 70 percent of damage to crops.
Imperial (8 miles southwest of), Tex.	10	3 p. m.	880			Hail.	Wind, reaching peaks of 70 to 80 m. p. h. did considerable damage. Large shade trees snapped off, a hangar demolished, power lines broken and service disrupted over city and Fort Missoula. Screen of drive-in theater blown down, causing loss of \$7,000. Damage of \$10,000 in Intermountain Lumber Co. yards.
Missoula, Mont.	10	Afternoon				Wind.	Damage to crops from hail, \$300,000; damage to buildings from wind, \$10,000. Complete loss of cotton, feed, and other crops in path 10 miles long.
Levelland, Tex.	10	7:30 p. m.	12		310,000	Wind and hail.	Many basements and streets flooded; several power lines downed.
Waukegan area, Ill.	10	9 p. m.			3,000	Rain and wind.	At Davenport, 6.57 inches fell in 24 hours, greatest 24-hour total ever recorded in 76 years. 24-hour totals at Moline, Ill. and Clinton, Iowa, were 4.44 inches and 3.69 inches, respectively. An estimated damage of one million dollars in the Quad-City area. Most loss from flooding of business buildings, factories, residences, and autos.
Eastern Clinton and Scott Counties, Iowa.	10-11	5 p. m.-10 a. m.		2		Rain and electrical.	Duck Creek overflowed, causing considerable damage. 1 boy killed by lightning, and another drowned in drainage ditch.
Dodgeville (near), Wis.	11	2 a. m.				Electrical.	Barn containing 3,700 bales of hay burned, and house and cheese factory partly burned, when struck by lightning.
Moline-Rock Island areas, Ill.	11	5 a. m.		1	1,000,000	Rain.	Many homes, stores, and factories severely damaged by flooding. Over 7 inches of rain fell at Rock Island, and nearly $4\frac{1}{2}$ inches at Moline Airport. Boy drowned in flooded drainage ditch, and woman injured in storm.

See footnote at end of table.

SEVERE STORMS FOR AUGUST 1949—Continued

Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks
Southeastern Connecticut, central and southern Rhode Island.	11	10 a. m.-1 p. m.	-----	-----	\$30,000	Electrical	2 large barns in Richmond, R. I., destroyed. Numerous buildings damaged by lightning on east side of Narragansett Bay. In New London, Conn., 5 buildings struck.
Decatur County, Ind.	11	Noon	-----	-----	1,000	-----	Minor building damage in Marion Township. Nearly all damage was to crops.
Logan County (southern and eastern portions), Ill.	11	12:15 p. m.	-----	-----	2,000	Rain and wind	Trees damaged; many telephone lines downed.
Collinsville area, Ill.	11	12:45 p. m.	-----	-----	-----	Wind and hail	Many trees damaged; some uprooted.
Wiggins, Miss.	11	3:45-4 p. m.	-----	-----	10,000	Wind	Several houses damaged, and a number under construction blown down.
Bethel, Conn.	11	4-5 p. m.	-----	0	-----	Tornado	Described as small "twister." Passed through sparsely settled small area; destruction of several large trees only damage.
Helena, Mont.	11	5:55-6:10 p. m.	-----	-----	500	Wind	Large tree uprooted, sign boards blown over, and small frame building demolished. Peak of 59 m. p. h. reached.
Des Moines, Iowa	11	5:40-8:06 p. m.	-----	-----	-----	Rain	Record breaking downpour of 3.44 inches in 2 hours. Some gusty wind accompanied rain, but most damage caused from excessive water.
Williamston and vicinity, N. C.	11	6 p. m.	-----	-----	16,000	Hail	\$14,000 damage to crops, \$2,000 to other property.
New Orleans, La.	11-12	11 p. m.-1 a. m.	-----	-----	10,000	Electrical and wind	2 severe electrical storms. Trees uprooted by high winds; transformers put out of commission, interrupting operations at factories, public transportation, etc.
Gallatin County, Mont.	12	5 a. m.	12	-----	6,000	Hail	Hail caused considerable damage to winter and spring wheat.
Tarpon Springs, Fla.	12	8:25 a. m.	35	0	100	Tornado	Storm "bounced" along for mile or more in northeastward direction through sparsely settled area, causing slight damage to home, interrupting telephone service, and breaking trees. Funnel cloud had foggy appearance and was accompanied by sounds resembling exhaust of a jet propulsion engine.
Liberty County, Mont.	12	1:30 p. m.	1 1/2	-----	10,000	Hail	5 to 50 percent damage to wheat.
Richey, Mont.	12	2:30 p. m.	880	-----	500	Wind	Hangar destroyed.
Medicine Lake, Mont.	12	3:30-5:30 p. m.	1,320	-----	-----	Hail	Heavy hail, some 1 1/4 inches in diameter, did considerable damage over path 15 miles long; some fields completely destroyed. Damage was to wheat, barley, cane, and corn.
Choteau, Mont.	12	5 p. m.	1 1/2	-----	8,000	do	15 to 25 percent damage to crops.
Baltimore and vicinity, Md.	12	6:45 p. m.	-----	-----	-----	Wind	Trees and poles blown down. Several trees fell on parked automobiles. Store windows smashed.
Armour, S. Dak.	12	7:15 p. m.	-----	-----	-----	Rain and wind	Strong winds accompanied a 3.13-inch rain and caused falling of trees and damage to power lines and weaker buildings.
Lustre, Mont.	12	7:15-7:40 p. m.	12-3	-----	25,000	Hail and wind	50 to 90 percent damage to corn and wheat.
Anne Arundel County, Md.	12	8 p. m.	-----	1	-----	Electrical	Woman killed by lightning while sitting in kitchen; electrical fixtures in ceiling of each room torn out, leaving gaping holes.
Finney County, Kans.	12	Evening	-----	0	-----	Tornado	Tornado moving northeastward struck ground about 1/4 mile south of river on Highway 83. 2 buildings and 2 automobiles damaged.
Worcester County, Md.	12	-----	-----	-----	-----	Electrical	Light plane struck while in flight, forcing it to ground. A large hole torn in wing.
Harford County, Md.	12	-----	-----	-----	-----	do	Barn struck by lightning and burned.
Calvert County, Md.	12	-----	-----	-----	-----	Hail and electrical	2 farmers reported at least 75 percent of tobacco crop damaged, while others reported lesser damage. Horse killed by lightning.
Pottawatomie County, Okla.	13	11 a. m.-12:15 p. m.	220	0	3,760	Tornado, hail, and electrical	Storm area 6 miles north of Shawnee to 8 miles north and 1 1/2 miles east. Tornado destroyed or damaged several outbuildings; loose material blown away or twisted around trees. Path of tornado only about 1/2 mile long, and occurred 6 miles north of Oklahoma Baptist University. Lightning struck a hay barn north-northeast of Shawnee about 12:15 p. m., with a loss of about \$3,000.
Hampden County, Mass.	13	Forenoon	-----	-----	100,000	Rains	At Springfield, Chicopee, Holyoke and other cities and towns in Connecticut Valley 2 to 3 1/2 inches of rain in as many hours caused washouts, soaked industrial and merchandise stocks, disrupted power lines, flooded cellars, and disabled automobiles.
Norborne, Mo.	13	Late afternoon	-----	1	-----	Electrical	2 children struck by lightning, when removing clothes from a line attached to a tree which was struck by lightning; 1 killed.
Roosevelt County, Mont.	13	9:30 p. m.	12	-----	42,000	Hail	Damage to wheat.
Lavalette and vicinity, W. Va.	14	Afternoon	-----	-----	-----	Rain and electrical	Cloudburst caused about a 3-mile stretch of Long Branch Creek to overflow its banks and flood adjacent hay and corn fields; small foot-bridge washed out. Lightning struck residence in Lavalette, causing slight damage.
Sedan and vicinity, N. Mex.	14	5:30 p. m.	-----	-----	-----	Hail	50 to 90 percent crop loss.
Elliston and vicinity, Greene County, Ind.	14-15	-----	-----	-----	27,000	Flash flood	Damaged bridges, fields, and crops. \$10,000 crop damage included in total.
Yuma and vicinity, Colo.	15	11 a. m.-2 p. m.	14	-----	2,500	Hail	Storm in Schramm, Yuma, and Otis sections. Hailstones 1/4 to 3/4 inch in diameter. Damage mostly to growing crops.
Eastern Lewis and western Upshur Counties, W. Va.	15	Morning and afternoon	-----	-----	20,000	Rain	Flash floods in smaller streams washed out many small bridges and damaged roads; several houses flooded; with 1 washed away from foundation; considerable damage to crops in lowlands. Worst flood in 22 years at Valley Chapel.
Ravalli County, Mont.	15	1-2:30 p. m.	11	-----	2,500	Hail	Damage to barley, oats, and wheat.
Rapid City, S. Dak.	15	2:35-3:15 p. m.	12	-----	25,000	do	Path about 6 miles long and 1/4 mile wide. West end of Rapid City, known as Canyon Lake district, hardest hit. Precipitation measurements varied from 3 1/2 to 4 1/2 inches in west end to near 2 inches in center of town. Hail measured 6 inches deep in truck box that had straight sides. Ice on some hills caused them to be white for more than 12 hours after storm. Some ice covered with dirt, etc., reported to be unmelted 4 days later. Greater part of damage to roofs and flooding of basements.
Fort Worth, Tex.	15	Afternoon	-----	-----	10,000	Wind	8 airplanes damaged and small building destroyed.
Frontier County (northern border of western portion), Nebr.	15	4:30 p. m.	12-3	-----	-----	Hail	Corn badly damaged in path 20 miles long.
Lamesa, Tex.	15	5:30 p. m.	11	-----	225,000	do	5,000 acres of cotton damaged.
Daniels County, Mont.	15	6 p. m.	11	-----	30,000	Hail and wind	Damage to wheat, barley, oats, and flax. \$20,000 hail damage and \$10,000 wind damage.
Valley County, Mont.	15	-----	12-10	-----	12,000	Hail	Spotted damage to wheat over path 18 miles long.
Cheyenne County, Kans.	16	3:30 p. m.	16	-----	105,000	do	Storm traveled 8 miles from Wheeler to Bird City. Trees stripped of leaves; gardens, row crops, and some property damaged. Hail generally size of marbles.
Eastern Jackson and western Martin Counties, Minn.	16	5 p. m.	15	70,000	-----	Thundersqualls and hail	A number of barns, houses, and grain elevators damaged; outbuildings and silos wrecked; poles and wires down; trees uprooted. Light to heavy hail caused \$50,000 damage to growing crops, mostly to corn and soybeans, included in total.
Wisconsin Rapids, Wis.	16	Afternoon	-----	-----	-----	Rain and electrical	Torrential thunderstorm rains flooded portions of city. Some telephone and power lines damaged by lightning.
Berlin (near), Wis.	16	7:15 p. m.	-----	2	-----	Electrical	Struck by lightning.
Lancaster and Saunders Counties, Nebr.	16	7:10-7:30 p. m.	140	-----	10,000	Thunderstorms and wind	Damage to wires interrupted telephone service; minor damage to trees.
Sherman and Thomas Counties, Kans.	16	8 p. m.	13	-----	20,000	Hail	Storm path 40 miles long, with principal damage from Lincoln to Wahoo. Hail fell over path 20 miles long, with heaviest damage in vicinity of Brewster. Main loss to growing crops, buildings, and automobiles.

See footnote at end of table.

MONTHLY WEATHER REVIEW

AUGUST 1949

SEVERE STORMS FOR AUGUST 1945—Continued

Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks
Columbia, S. C.	16-17	Night			\$25,000	Rain	Record rain of 7.40 inches in 24 hours caused considerable damage by flooding streets and cellars, washing out nearby country roads, and flooding small bridges and low places.
Aztec, N. Mex.	17	11:45 a. m.				Hail	Fruit and truck crops damaged.
Wauseon, Ohio	17	2:10-3:10 p. m.				Rain	23.0 inches of rain fell in 1 hour, flooding basements.
Lewistown, Mont.	17					Hail	Severe loss of grain.
Unionville and vicinity, Mo.	17	Night			3,000	Electrical	3 cows killed by lightning. Barn and contents burned when struck by lightning.
Rushville, Mo.	18	Late afternoon				Hail	Hailstones up to 2 inches in diameter caused heavy damage to tobacco and corn crops.
Rice and Reno Counties, Kans.	18	9-11 p. m.				Wind	Path of damage extended from near Chase in western Rice County southeastward about 30 miles to near Hutchinson. Numerous windows blown in near Chase. Power and telephone lines blown down and damaged by falling tree limbs.
Shawnee County, Kans.	18	Evening				Wind, hail, and electrical	North west winds broke many limbs and telephone and power lines in and around Topeka. Hail, size of hen eggs and very jagged and rough, fell east and north of town, damaging airplanes, greenhouses, crops, and knocking window lights out of houses. Several homes struck by lightning.
Payne County, Okla.	18			1		Electrical	Farmer sitting in living room killed by lightning which struck wiring of house.
Casino Creek, Mont.	19	Afternoon	13-4			Hail	Considerable damage to wheat over path 5 miles long.
Clyde Park, Mont.	19	4:30 p. m.	1		8,000	do.	Damage to grain over path 3 miles long.
Musselshell County, Mont.	19	5:30 p. m.	1,320			do.	Moderate hail destroyed 37 percent of barley over path 6 miles long.
Golden Valley County, Mont.	19	6:45-7:45 p. m.	1,320		8,000	do.	Damage to wheat over path 4 miles long.
Fernandina, Fla.	20	2:30 p. m.		1		Thunderstorm	High seas swept boy from jetty into deep water where he drowned.
Dallas, Hale, Marengo and Perry Counties, Ala.	20	2:30-3 p. m.			1,500	Thundersquall	At Sardis, barn damaged and mule killed, loss \$400. Craig Field at Selma reported gusts up to 69 m. p. h. Other minor wind damage to buildings, and damage to trees and telephone lines over area extending westward over portions of Hale, Marengo, and Perry Counties.
Gallatin County, Mont.	20	3:30 p. m.	880-1,320		600	Hail	Spring wheat damaged.
Cimarron, N. Mex.	20	5:30 p. m.			100,000	do.	Crop loss about \$50,000, with equal damage to roofs and windows.
Huron, S. Dak.	20	6-6:30 p. m.				Wind	Winds, above 70 m. p. h. at times, wrecked hangar and airplane at municipal airport. Trees, power, and telephone lines damaged.
Porthill, Idaho	20	6:45 p. m.				Hail	Damage small.
Mobile, Ala.	20	Early night		4		Thundersquall	Small skiffs overturned drowning 4 men in Mobile Bay.
Eldorado (5 miles south of), Okla.	20				700	Wind	Peach orchard severely damaged.
Wibaux (north of), Mont.	20		18		35,000	Hail	Hailstones up to 1 inch in diameter damaged wheat over path 12 miles long.
Warren County, N. C.	21				85,000	Wind	\$50,000 damage to corn, cotton, and tobacco. \$35,000 damage to buildings in Manson area.
Cascade County, Mont.	23	3 p. m.	16		75,000	Hail	Light to 100 percent loss over path 15 miles long.
Park County, Mont.	23		1,320		15,000	do.	Damage over path 20 miles long.
Dare County, N. C.	24	Morning		1		Hurricane	Several houses unroofed. Thousands of trees broken in Buxton area. Man drowned in Croatan Sound. Estimated damage of \$50,000 to housing in Buxton.
Raton, N. Mex.	25	Noon				Rain and hail	Some local flooding and erosion. Hail damaged gardens.
Raymond and vicinity, Minn.	25	4:15 p. m.	16		7,000	Thundersqualls (possibly small tornado)	Several farm outbuildings demolished; hayrack wrecked and farm machinery damaged; large chimney of town garage toppled; poles, wires, signboards down; many trees uprooted.
North of Stockville to north of Eustis, Nebr.	25	7:30-7:45 p. m.	12		110,000	Thundersquall and hail	Moved northeastward in path 30 miles long. Forage feed a total loss.
Florida, east of Longitude 84° W. except Gulf Coast Counties south of Sarasota.	26-27			2	45,000,000	Hurricane	Damage of \$100,000 to corn and forage, and \$10,000 to roofs of buildings. Center reached Florida coast at Delray Beach, a few miles south of West Palm Beach about 6 p. m. the 26th, with winds reaching 163 m. p. h. at Jupiter Lighthouse before the anemometer failed. Storm curved slowly to right and center passed across northern part of Lake Okeechobee, then northwesterly across Highlands and Hardee Counties, and over Plant City to Gulf Coast in Citrus County by noon 27th. From Citrus County storm center moved northward, passed a few miles west of Lake City about 7 p. m. and was near Valdosta, Ga. at 10 p. m., with winds from 40 to 70 m. p. h. to north and east of the center. Heaviest crop losses suffered by citrus, particularly grapefruit, in Indian River and Ridge areas. Avocado losses heavy in Lake Placid, Avon Park, and Auburndale areas. Loss of truck crops largely confined to seedbeds.
							ESTIMATED DAMAGE SUMMARY
							Crops, all kinds (includes 14,000,000 boxes of citrus)..... \$20,000,000
							Property..... 18,000,000
							Power and communications..... 4,000,000
							Highways, bridges, and streets..... 500,000
							Miscellaneous (includes trees, shrubs, fences, and a few small craft)..... 2,500,000
Welch and vicinity, Minn.	27	4:40 a. m.			6,300	Thundersqualls	Town garage partly demolished; buildings damaged; 2 windmills wrecked; poles and wires down; some trees uprooted; hundreds of sparrows perished.
Lincoln area, Ill.	27	7:15 p. m.			3,000	Wind and rain	Several trees blown down; utility and communication lines damaged. Many basements flooded.
Valdosta to Augusta, Ga.	27-28	Afternoon to early morning		1		Hurricane	Incomplete reports indicate losses of \$300,000 or more, possibly as great as \$500,000. Many areas sustained light to moderate damages, with losses of \$35,000 known to have occurred in Valdosta area, more than \$25,000 in Brunswick area, and \$250,000 in Savannah area. Much corn blown down and pecans blown off trees in Valdosta area where maximum wind 55 m. p. h. and a low pressure of 29.2 inches m. s. l. Winds at Brunswick reached 75 m. p. h. (estimated), and rainfall amounted to 8.68 inches within 24 hours, two-thirds of which fell during the early morning hours of the 28th. Crops and fields inundated and badly washed; much damage to roadways, also to power and communication lines. Only slight to moderate damage to trees and buildings. One-third of damage in Savannah area involved crops. Many trees uprooted or broken off, with resultant damages to automobiles and other property from falling trees or limbs; considerable roof and slight structural damage to buildings. Most damage to crops, due to heavy rains, the beating effect, and resultant flooding. 1 person killed, due to contact with "live" wire.
South Carolina (northwestern portion).	28	Morning			1,500,000	do.	Damage to property, communications, and roads roughly estimated at \$500,000. Crop damage consisted mainly of ungathered corn and hay blown down in bottom lands, and further aggravation to cotton; will probably exceed \$1,000,000.

See footnote at end of table.

SEVERE STORMS FOR AUGUST 1949—Continued

Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks
Sootland County, N. C.	28	Noon		0		Tornado	Struck parts of county. Trees blown down and houses damaged. Approximately \$35,000 damage to buildings and machinery of Morgan Cotton Mills at Springfield.
Asheboro, N. C.	28	Afternoon				Wind	Antenna tower of Radio Station WGWR blown over.
Granville County, N. C.	28	do.			\$75,000	do.	\$36,000 damage to property and \$40,000 to crops.
Wilson, N. C.	28	do.			30,000	do.	3 radio towers blown down.
Virginia	28	Afternoon and night			200,000	Wind and rain	Remnant of the hurricane caused considerable minor damage to trees, power lines, and light buildings over most of State, but principal damage concentrated in Sussex and Richmond Counties. At Wakefield 3 houses destroyed beyond repair, and at Mothershead Neck and Holes Point 1 house wrecked and 3 summer cottages damaged.
Raleigh, Apex, and McCullers areas, N. C.	28	4 p. m.		0	60,000	Tornado	Power and communication lines down. Several buildings including houses damaged. Many trees uprooted or broken.
Franklin County, N. C.	28	5 p. m.		0	100,000	do.	1 residence destroyed, 5 others damaged; 25 tobacco barns leveled or badly damaged. Numerous other buildings damaged. 3 persons slightly injured.
Birmingham, Ala.	28	5 p. m.	880		150,000	Electrical, wind, and rain.	6 C-46 Air Force planes damaged at Municipal Airport; 3 civilian planes also damaged. Some trees blown down, with power lines broken.
Ridgeway and vicinity, N. C.	28	5:30 p. m.		0		Tornado	Storm moved southeastward, covering area about 1/4 mile square. \$22,500 damage by lightning; \$112,500 by wind; \$15,000 by rain.
Coos and Grafton Counties, N. H.	28-29	Night and all day				Rain	Trees, farm buildings, and crops damaged or destroyed. Somelivestock and poultry killed or injured.
Maryland (central and eastern portions).	28-29	During night				Wind	2.0 to 3.6 inches of rain fell throughout mountain area of New Hampshire, causing washout damage.
Laurel, Del.	28-29	During night				do.	Remains of tropical hurricane. Boats ripped loose from moorings at Crisfield and Essex. In Worcester County at 2 farm homes whirlwinds tore off chimney, knocked out window panes, and flattened outbuildings, including a work shop, barn, and poultry house containing 100 chickens and 15 hogs. 300 telephones out of order in Worcester County. Trees and power poles downed; some on parked automobiles. Damage estimated at several thousand dollars. In Baltimore City, 2 policemen injured; at least 15 large plate glass windows (valued at from \$75 to \$150 each) smashed, and 2 large neon signs shattered. In several sections of city, electricity off for some time.
Connecticut, Rhode Island, and Massachusetts Coasts.	29	Morning and early afternoon			25,000	Rain, wind, and tidal damage.	Large storage building and 2 broiler houses blown down. Unoccupied farm house moved from its foundation. In many parts of Peninsula, the wind left a path of broken woodland.
Sandusky, Ohio.	29					Thunderstorm	Storm of tropical origin, maintained considerable energy during its northeastward passage, causing heavy rains in southern New England; strong south-southeast winds on southern coast pushed noontime high tide 2 to 3 feet above normal in bays and inlets, causing small-craft damage, and eroding coastal roads, beaches and sea-walls.
Birmingham, Ala.	30	10:30-11 a. m.	880			Thundersquall	Considerable damage in southeastern suburban section of city. Slight wind damage, but flooding of stores, basements, and automobiles in downtown area caused damage of \$350,000. Storm moved east-southeastward for 7 miles.
Grant (near), Mich.	30	11-11:30 a. m.	34-67	0	10,000	Tornado	Storm started 1 mile north of Grant and moved nearly straight east for about 3 miles. Funnel-type cloud preceded by 1/4 inch hail and heavy rain. Small buildings blown down and crops destroyed.
Red Bud area, Ill.	30	4 p. m.			5,000	Wind and hail	Hail caused light damage to several automobiles; some corn stripped.
Montgomery, Ala.	30	4:20 p. m.	10-17	0	3,300	Tornado	On Dalcraida road east of Montgomery and 1/4 mile south of Gunter Field, tornado, moving south-southeastward, hit ground at just one spot where a house was standing. Roof and most of ceiling lifted away and scattered over an area 200 yards long by 100 yards wide, fanning out from the house in the direction of the storm; damage \$3,000; also \$300 damage to greenhouses and nursery stock which it passed over.
Des Moines, Iowa.	30	Afternoon				Hail	Hailstones up to 1 inch in diameter fell in area of Polk County Farm, section of Highland Park and Norwoodville, and in vicinity of State Fair Grounds.
Willoughby and vicinity, Ohio.	30					Wind	Trees and public utility lines blown down.
Kearney, Finney, and Grant Counties, Kans.	31	6-7 a. m.			60,000	Hail and wind	Violent wind over southern Kearney, eastern Finney, and northern and eastern Grant Counties. Hail damaged crops and property in various small strips. Storm from northwest. Hail ranged in size from peas to marbles and most severe at Ulysses and eastward.
Elliston, Greene County, Ind.	31	Noon	13		8,000	Wind and hail	Hail up to 1/4 inch diameter. Damage to crops.
Lexington, Fayette County, Ky.	31	1:25-1:45 p. m.	11		100,000	do.	Path 3 miles long. Hailstones from 1/4 to 3/4 inch in diameter, and mainly chunks of clear ice. Area of damage between the Frankfort and Versailles Pikes and extending from vicinity of Bluegrass Field to about 3 miles eastward. Tobacco only crop damaged to any extent.
McHenry and Lake Counties, Ill.	31	3 p. m.				do.	Many trees damaged and some corn flattened.
Ruidoso, N. Mex.	31	3:30 p. m.			500	Hail	Windows and roofs damaged.
Isconsi (southern portion)	31	Afternoon		2		Wind and hail	Sudden and severe windsqualls accompanying cold front as it moved eastward, caused considerable property damage. Power and telephone service disrupted, several silos razed, and barns unroofed. Small boats on Lake Michigan and inland lakes sunk or damaged. Several tents at Walworth County fair blown down. Signs, windows, tree limbs, and telephone and power wires in Milwaukee and other cities broken. Many apples whipped from trees. Some destruction to crops, gardens, and fruits by large hailstones near Thiensville, Mather, Madison, and in Walworth County. 1 person drowned; another electrocuted by fallen "live" wire.

LATE REPORT FOR JULY 1949

Dodge and vicinity, Nebr.	31	10-10:30 p. m.	11		\$16,000	Hail	\$12,000 damage to corn and other crops, and \$4,000 to roofs and windows in path 6 miles long. Hailstones averaged about 1 inch in diameter.
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1 Miles instead of yards.